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Woodward-Clyde Consultants

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November 8, 1990 88C2076-4S

U.S. Environmental
Protection Agency
Region III
841 Chestnut Street
Philadelphia, PA 19107

Delaware Dept. of Natural Resources and Environmental Control Div. of Air and Waste Management 715 Grantham Lane New Castle, DE 19720

Attn: Mr. Randy Sturgeon

Attn: Mr. Karl Kalbacher

Du Pont-Newport Site Newport, Delaware Groundwater Seepage Sampling and MW-33B(R)

Gentlemen:

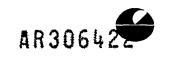
On behalf of Du Pont, Woodward-Clyde Consultants (WCC) is providing follow-up to the August 23, 1990 meeting with EPA and DNREC. As indicated at the meeting, Du Pont has volunteered to evaluate the groundwater seepage along the northern riverbank at the Newport Site. This letter is also responsive to the EPA's August 9, 1990 letter to Du Pont.

An investigation of the visually observable conditions along the embankment has already been completed by WCC. A summary of the observations and the locations of groundwater seepage are provided on the attached Table 1 and Figure 1, respectively.

Collection of groundwater samples from the seepage points is scheduled to start November 12, 1990. Utilizing the groundwater seepage station labeling shown on Figure 1, the analytical parameters proposed for each sample (individual seepage point or composite from several seepage points for non-volatile organics analyses) are shown on Table 2.

This letter also serves to confirm the approval already provided verbally, by the EPA and DNREC addressees, shown above, for the replacement of Phase III well MW-33B with MW-33B(R), due to





a non-recoverable submersible pump being lodged in MW-33B by the drilling subcontractor. The MW-33B well has been abandoned in accordance with Delaware regulations.

Du Pont and WCC welcome any input from the EPA or DNREC prior to the scheduled sampling event. Approval from both agencies is respectfully requested. For your convenience, a countersignature approval line is provided below. Thank you for your prompt response.

Very truly yours,

WOODWARD-CLYDE CONSULTANTS

Roger T. Gresh, P.G. Project Manager

RTG/kcs/DPN

APPROVED BY:

cc: J. Karmazyn - Du Pont

- R. DeStefano Du Pont
- C. Trmal Du Pont
- A. Hirsch WCC

DU PONT-NEWPORT SITE APPROVAL FOR GROUNDWATER SEEPAGE SAMPLING PROGRAM

Randy Sturgeon USEPA, Region III Karl Kalbacher Delaware DNREC

AR306423

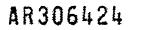


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TABLE 1

GROUNDWATER SEEPAGE STATIONS DU PONT-NEWPORT

<u>Station</u>	Seepage <u>Flow Rate</u>	Sediment Staining; <u>Leachate Description</u>	Vegetation Observations Other Comments
GWS-1	Poor	Rust color stain; slight sheen	Vegetation - reed canary grass; pickerelweed in low intertidal
GWS-2	Moderate	Clear	Vegetation - jewelweed, iris; pickerelweed
GWS-3	Fair	Clear; slight sheen nearby	Several feet below high water in bricks/rubble; large area of diffuse flow. Vegetation - honeysuckle; Polygonum sp.
GWS-4	Moderate		50 feet east of GWS-3 maybe part of GWS-3. Vegetation - pickerelweed; Polygonum sp.
GWS-5	Poor	Sheen	Diffuse flow; difficult to collect sample.
GWS-6	Poor	Clear	002 outfall; flowing from pipe day of inspection; flow from bank poor; perform metals only from pipe?
GWS-7	Fair-Poor	Slight sheen	Diffuse flow Vegetation - pickerelweed; Polygonum sp.
GWS-8	Good	Clear	003 outfall; located 20 - 25 feet upstream of piling ruins; observed frog. Vegetation - willows

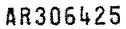




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TABLE 1 (continued)

<u>Station</u>	Seepage Flow Rate	Sediment Staining; Leachate Description	Vegetation Observations Other Comments
GWS-9	Good	Bright orange stain; strong organic odor	No vegetation observed; 50 feet downstream from intakes at east end of old head wall
GWS-10	Poor	Amber floating NAPL	Middle of intertidal; no vegetation below; sampling may be difficult
GWS-11	Fair	Rust color; strong iridescent sheen	Sandy sediment; location corresponds with unidentified discharge pipe; large area of rust color stain; no vegetation; all rubble and cobbles.
GWS-12	Fair	Rust color stain; "Dowtherm"-like odor	Gravelly sediment; raccoon tracks observed; vegetation minimal - one clump of pickerelweed.
GWS-13	Fair	Rust color stain	Diffuse area of rust colored stain; will choose specific sampling location in field vegetation - pickerelweed in mid-intertidal.
GWS-14	Fair	Yellow, blue, and green stained mud; slight iridescence	Vegetation - pickerelweed; Polygonum sp.
GWS-15	Fair	White and orange stains	No vegetation
GWS-16	Moderate	Rust colored stain; clear flow; iridescent film; organic odor	





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TABLE 1 (continued)

<u>Station</u>	Seepage Flow Rate	Sediment Staining; Leachate Description	Vegetation Observations Other Comments
GWS-17	Moderate	Sinking NAPL "Dowtherm"-like odor	Vegetation - pickerelweed
GWS-18	Poor	Diffuse area of sheen	No vegetation observed
GWS-19	Moderate	Yellow, orange and green separate stains with white precipitate; organic odor.	Located near unpermitted discharge; no vegetation observed.
GWS-20	Fair-Poor	Orange, yellow, and white stains; slightly iridescent film; petroleum hydrocarbon odor.	Diffuse flow; 20 to 25 feet upstream of concrete wall.

DPN



TABLE 2

Groundwater Seepage Station	Proposed Analytical Parameters ⁽¹⁾
GWS-1 GWS-2, 3, 4, 5, 6 (Composite) GWS-2 GWS-4 GWS-7, 8 (Composite)	No sample SVOA ⁽²⁾ ; metals ⁽²⁾ VOA SVOA; Metals
GWS-8	VOA Wetais
GWS-9, 10, 11 (Composite) GWS-9 GWS-11	SVOA; Metals VOA VOA
GWS-12, 13 (Composite) GWS-12	SVOA; Metals VOA
GWS-14, 15, 16 (Composite) GWS-14 GWS-16	SVOA; Metals VOA VOA
GWS-17, 18 (Composite) GWS-17	SVOA; Metals VOA
GWS-19, 20 (Composite) GWS-19 GWS-20	SVOA; Metals VOA VOA; TPH

- (1) Proposed analyses will be subject to field limitations on availability of groundwater seepage for appropriate sampling.
- (2) SVOA = Target Compound List Semi-Volatile Organics
 VOA = Target Compound List Volatile Organics
 Metals = Target Analyte List Metals
 TPH = Total Petroleum Hydrocarbons





